FEATURES：

- Fixed voltage input,regulaed single output,1W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF≥3500K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94V-0 requirements
- SIP package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency （%/Typ）	CapacitiveLoad(μF)
	Norminal （Vdc）	Range （Vdc）	Voltage (Vdc)	Min current (mA)	Max current (mA)		
IB0503LS-1WR3	5	4.75-5.25	3.3	25	250	67	2400
IB0505LS-1WR3			5	20	200	70	2400
IB0509LS-1WR3			9	12	111	71	1000
IB0512LS-1WR3			12	9	84	72	560
IB0515LS-1WR3			15	7	67	73	560
IB0524LS-1WR3			24	4	41	73	100
IB1205LS-1WR3	12	11.4-12.6	5	20	200	73	2400
IB1209LS-1WR3			9	12	111	73	1000
IB1212LS-1WR3			12	9	84	73	560
IB1215LS-1WR3			15	7	67	75	560
IB1505LS-1WR3	15	14.25-15.75	5	20	200	73	2400
IB1515LS-1WR3			15	7	67	75	560
IB2403LS-1WR3	24	22.8-25.2	3.3	25	250	71	2400
IB2405LS-1WR3			5	20	200	73	2400
IB2409LS-1WR3			9	12	111	73	1000
IB2412LS-1WR3			12	9	84	73	560
IB2415LS-1WR3			15	7	67	73	560

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

Output Specifications

Item	Typ	Max	Test Conditions
Voltage Accuracy	-	±3%	Input voltage range and load
Line Regulation	-	±0.25%	Input voltage ±1%

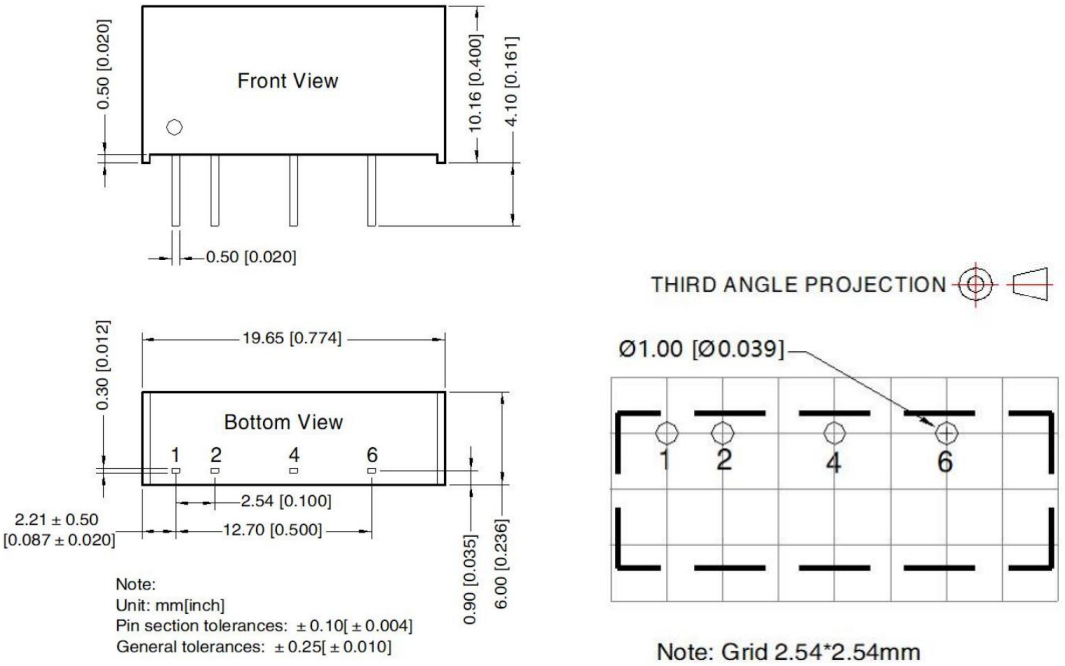
Load Regulation	±0.5%	±2%	10% to 100% full load
Ripple&Noise	50mVp-p	75mVp-p	20MHz Bandwidth, full load

Gerneral Specifications

Switching Frequency	250KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	25℃（Typ）	
Temperature Coefficient	0.02%/℃	100% full load
Pin Soldering Resistance Temperature	300℃	Soldering spot is 1.5mm away from case for 10 seconds
Isolation（Input-Output）	1.5KVDC	Input-output electric strength test for 1 minute with a leakage current
Insulation Resistance（Input-Output）	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	<95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94V-0)	
Weight	2g（Typ）	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout

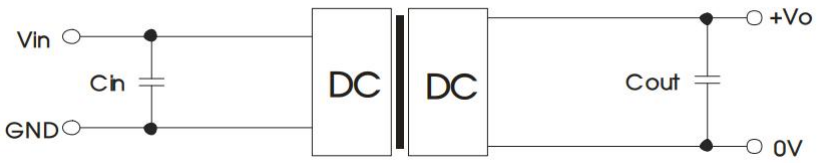


Pinout

Pin	Mark		
1	Vin		

2	GND		
4	0V		
6	+Vo		

Recommended Circuit



Single Vout	Cout	Vo	Cout
5VDC	4.7uF/16V	3.3/5VDC	10uF/16V
12/15VDC	2.2uF/25V	9VDC	2.2uF/16V
24VDC	1uF/50V	12VDC	2.2uF/25V
-	-	15VDC	1uF/25V
12VDC	2.2uF/25VDC	±12VDC	1uF/25V
15VDC	1uF/25VDC	±15VDC	0.47uF/25V
24VDC	1uF/50V	±24VDC	0.47uF/50V

Note

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.